Original

4297

4—679
(April 1933)

Book D

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

BOOK 4297

FIELD NOTES

OF THE

Survey of a Portion of the Subdivisional Lines,

Completing the Subdivision of

Township 14 South, Range 28 East,

4297

Of the Gila and Salt River *Meridian,*

In the State of Arizona

EXECUTED BY

Benjamin J. Kinsey, Cadastral Engineer.

General Land Office

Under special instructions dated December 16, *19* 38, *which provided for the surveys included under Group No.* 224, *bearing the approval of the Commissioner of the General Land Office under date of* February 14, 1939 *and assignment instructions dated* March 9, *19* 39

Survey commenced March 21, *19* 39.

Survey completed March 28, *19* 39.

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ECCN 4297

INDEX DIAGRAM.

Township 14 South, *Range* 28 East.

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The surveys herein described were executed with Buff light mountain transit, Serial No. 18000. The instrument is equipped with full vertical circle and the improved Smith solar attachment, and otherwise conforms to the standard specifications of the General Land Office. It was approved by the district cadastral engineer on March 9, 1939, conditional upon satisfactory field tests. All of the instrumental adjustments were examined before making the field tests hereinafter described.

The directions of the lines were determined by the solar transit method. The measurements were made with a Lufkin steel tape, 5 chs. in length, graduated every link for the first 100 lks., and thereafter at intervals of 10 lks. The tape was tested by comparison with a Lufkin standard and found correct. The measurements were made on the slope and the vertical angle of each interval was ascertained with a clinometer in good adjustment. The horizontal equivalents are entered in the field note record.

The data furnished with the special instructions give the geographical position of the SE. cor. of T.14 S., R.28 E., G. and S.R. meridian, Arizona, as follows: latitude 32°09'42"N., and longitude 109°25'56"W.

March 20, 1939: At camp near the center of the SE¼ of sec. 15, in T.14 S., R.28 E., at 7h 49m p.m., l.m.t., observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, marking the mean point in the line thus determined by a tack set in top of a peg, driven firmly in the ground about 5 chs. N.

March 21, after sunrise, lay off the azimuth of Polaris, 1°13' to the east, and mark the meridian thus determined by a tack set in top of a peg driven firmly in the ground about 5 chs. N.

At 9h 0m a.m., app.t., set off 32°12'N., on the lat. arc; 0°05'N., on the decl. arc; and determine a meridian with the solar; the line of sight agrees with the meridian established by Polaris observation.

At app. noon, with lat. arc unchanged; observe the sun on the meridian; the resultant reading of the decl. arc is 0°08'N., which agrees with the computed declination of the sun.

At 3h 0m p.m., app.t., with lat. arc unchanged, set off 0°11'N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the instrument is in satisfactory adjustment.

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Chains	
	Survey to complete the subdivision of T.14 S., R.28 E.
	The corner of secs. 20,21,28, and 29 is an iron post, 2 ins. diam., firmly set, projecting 18 ins. above ground, in a mound of stone, with brass cap properly marked and witnessed as described in the official record.
	Thence
	N.0°02'W., bet. secs. 20 and 21.
	Over mountainous land, thru heavy timber and dense undergrowth.
	Asc. 204 ft. over steep SE. slope.
5.10	Ridge, bears E. and W.; descend 333 ft. over broken NE. slope.
27.30	Gulch, 20 lks. wide, course N.70°E.; asc. gradually over broken east slope.
33.20	Spur, slopes east; desc. 66 ft. over broken NW. slope.
37.00	Gulch, 20 lks. wide, course NE.; asc. 4 ft. over SE. slope.
37.50	Rim of gulch at broken topped spur, slopes E.; descend gradually to
40.00	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 20 | S 21 1939 from which
	An oak, 6 ins. diam., bears S.11°E., 110 lks. dist., mkd. ¼ S 21 BT.
	An oak, 6 ins. diam., bears S.9°W., 101 lks. dist., mkd. ¼ S 20 BT.
	Asc. slightly over SE. slope.
41.40	Spur, slopes NE.; desc. 23 ft. over NW. slope.
44.10	Wash, 10 lks. wide, course NE.; asc. gradually over SE. slope.
48.10	Spur, slopes E.; desc. gradually over N. slope.
49.40	Shallow draw, course E.; asc. gradually over SE. slope.
51.00	End of spur from west; desc. gradually over NE. slope.
52.30	Wash, 10 lks. wide, course SE.; asc. 126 ft. over SW. slope.
59.20	Spur, slopes SE.; desc. 173 ft. over NE. slope.

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Chains	
66.90	Wash, 10 lks. wide, course N. 80° E. Asc. 45 ft. over SE slope.
70.60	Tip of spur, slopes E. Desc. slightly over NE slope.
75.50	Wash, 15 lks. wide, course SE. Asc. 91 ft. over SW slope.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 20 ins. in the ground to bedrock, with stone marked with a cross (X) deposited at the base and in a mound of stone to top for cor. of secs. 16, 17, 20, and 21, with brass cap marked

T14SR28E
S17 | S16
S20 | S21

1939

from which,

An oak, 8 ins. in diam., bears S. 76¾° W., 222 lks. dist., marked T14S R28E S20 BT

No other trees available.

Land, mountainous.
Soil, rocky 4th. rate.
Timber, oak and juniper.
Undergrowth, oakbrush and cacti.

S. 89° 39' E., on a random line, bet. secs. 16 and 21.

40.00	Set temp. ¼ sec. cor.
79.76	Intersect the cor. of secs. 15, 16, 21, and 22, which is an iron post 2 ins. in diam., firmly set, projecting 14 ins. above ground, in mound of stone, with brass cap properly marked and witnessed as described in the official record.

Thence

N. 89° 39' W., on true line, bet. secs. 16 and 21.

Over mountainous land, thru scattering timber and heavy undergrowth.

	Asc. 209 ft. over SE slope.
7.30	Spur, slopes NE. Desc. 205 ft. over NW slope.
10.65	Wash, 10 lks. wide, course N. 10° E. Asc. 357 ft. over E. slope.
32.75	Spur, slopes N.30°E. Desc. 101 ft. over NW slope.
39.42	Set an iron post 3 ft. long, 1 in. diam., on granite surface, over cross 6 ins. long, cut in same, and in a mound of stone to top for witness ¼ sec. cor., with brass cap marked

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Subdivision of T. 14 S., R. 28 E.

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Chains	
	WC ¼ $\frac{S\ 16}{S\ 21}$ 1939
	from which,
	A juniper, 18 ins. in diam., bears S. 43° E., 244 lks. dist., marked W C ¼ S 21 B T
	No other tree available.
	Government Peak bears S.68°17'W.
	Desc. gradually over granite outcropping.
39.80	Desc. abruptly over vertical ledge facing west.
39.88	True point for ¼ sec. cor. falls on precipitous slope where it is impracticable to monument the cor., therefore establish witness cor. as hereinbefore described.
	Desc. 67 ft. over NW slope.
51.25	Wash, near head, course NE. Asc. 193 ft. over SE slope.
61.75	Ridge, at bend from N.80° W. to South. About 3 chs. S., ridge bears easterly. Desc. 30 ft. over SW slope.
65.80	South edge of saddle in ridge from N.85° E. to N. 85° W.; Asc. 177 ft. over SE slope.
75.96	4-strand barb wire fence, bears N. 80° W. and S. 80° E.
79.00	Top of ascent continue over nearly level land about 1 ch. south of E. and W. ridge.
79.76	Intersect the cor. of secs. 16, 17, 20, and 21,
	Land, mountainous. Soil, rocky 4th. rate. Timber, oak and juniper. Undergrowth, oakbrush and cacti.
	N. 0° 02' W., bet. secs. 16 and 17.
	Over mountainous land, thru scattering timber and undergrowth.
	Asc. 5 ft. over SE slope.
0.60	Ridge, bears Easterly and SW. A 4-strand barb wire fence extends along top of ridge at this point. Desc. 740 ft. over NW slope entering heavy timber.
3.22	4-strand barb wire fence bears N.80°E. to S.80°W.
20.52	Turn in 4-strand barb wire fence, from N. 20° E. to South is ~~east~~ 10 lks. dist.
35.32	Page wire corral on line, about 5 chs. square; line crosses about center of same. Foot of steep slope bears E-W.
	Continue over gradual SW slope. A nearly level saddle in N. and S. ridge, bears east about 3 chs. distant.
38.00	Leave corral.

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Chains	
39.76	Set an iron post 3 ft. long, 1 in. diam., 28 ins. in the ground for ¼ sec. cor., with brass cap marked ¼ S17 | S16 1939 from which, An oak, 8 ins. in diam., bears N. 43° E., 43 lks. dist. marked ¼ S 16 B T An oak, 12 ins. in diam., bears N. 10° W., 97 lks. dist., marked ¼ S 17 B T A spring bears N. 70° W., 2 chs. distant. Along nearly level W. slope.
47.00	Begin desc. of 69 ft. over NW slope.
54.20	Gulch, 10 lks. wide, course NW.; asc. 143 ft. over SW slope.
60.70	Spur, covered with large granite boulders, slopes W. and ends 4 chs. distant, to turn NW. Desc. 592 ft. over broken NW slope.
79.52	Intersect the cor. of secs. 8, 9, 16, and 17, which is an iron post 2 ins. in diam., firmly set, projecting 18 ins. above ground, in mound of stone, with brass cap properly marked and witnessed as described in the official record. Land, mountainous. Soil, rocky, 4th. rate. Timber, oak and juniper. Undergrowth, oakbrush, cacti, and beargrass.
	From cor. of secs. 19, 20, 29, and 30, which is an iron 2 ins. in diam., firmly set, projecting 16 ins. above ground, in mound of stone, with brass cap properly marked and witnessed as described in the official record. Thence N. 0° 03' W., on true line, bet. secs. 19 and 20. Over mountainous land, thru scattering timber and thick undergrowth. Desc. 99 ft. over broken NW slope.
2.50	Wash, 10 lks. wide, course W. Asc. 122 ft. over SW slope.
9.60	Spur, slopes W. Desc. 19 ft. over NW slope.
15.80	Wash, 20 lks. wide, from NE to W. (about 2 chs. down to turn to SW.) Asc. 432 ft. over SE slope.
35.00	4-strand wire fence, bears E. and SW. on ridge bears NE. and SW. Desc. 118 ft. over NW slope.

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Chains	
40.00	Set an iron post 3 ft. long, 1 in. diam., 6 ins. in the ground to bedrock, with mound of stone to top for ¼ sec. cor., with brass cap marked ¼ S19 | S20 1939 from which, A juniper, 10 ins. in diam., bears S. 73° W., 58 lks. dist., marked ¼ S 19 B T An oak, 8 ins. in diam., bears N. 70° E., 32 lks. dist., marked ¼ S 20 B T Desc. 116 ft. over NW slope, to canyon bottom at 49 chs.
45.00	Ravine, 10 lks. wide, course N. 70° W. Asc. slightly over SW slope.
46.00	Low spur, slopes NW. Desc. slightly over NE slope.
49.00	Canyon bottom, wash, 10 lks. wide, course N. 10° W.; asc. 333 ft. over SW slope.
65.00	Spur, slopes W. Desc. 190 ft. over NE slope.
73.30	Gulch, 10 lks. wide, course W. Asc. gradually over SW slope.
76.00	Spur, slopes West; desc. 81 ft. over NW slope to
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 17, 18, 19, and 20, with brass cap marked T14S R28E S18 | S17 S19 | S20 1939 from which, A juniper, 36 ins. in diam., bears N. 4° E., 37 lks. dist., marked T 14 S. R 28 E S 17 B T An oak, 5 ins. in diam., bears S. 28° E., 78 lks. dist., marked T 14 S R 28 E S 20 B T A juniper, 22 ins. in diam., bears S. 68° W., 89 lks. dist., marked T 14 S R 28 E S 19 B T An oak, 18 ins. in diam., bears N. 28° W., 153 lks. dist., marked T 14 S R 28 E S 18 B T Land, mountainous. Soil, rocky 4th. rate. Timber, oak and juniper. Undergrowth, oakbrush, cacti and beargrass.

Subdivision of T. 14 S., R. 28 E.

chains	
	East, on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect the cor. of secs. 16,17,20, and 21.
	Thence
	West, on true line bet. secs. 17 and 20.
	Over mountainous land, thru scattering timber and undergrowth.
	Asc. 82 ft. over SE. slope.
6.40	4 strand barb wire fence, bears NE. and SW.
6.80	Ridge, bears NE. and SW.; asc. 37 ft. along NE. slope.
13.20	Spur, slopes N.20°W.; desc. 175 ft. over W. slope.
21.50	Wash, 15 lks. wide, course N.30°E.; asc. 291 ft. over E. slope.
30.50	Spur, slopes N.20°W.; desc. 224 ft. over W. slope.
37.30	Wash, 10 lks. wide, course N.10°E.; asc. 44 ft. over E. slope.
39.85	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 17 / S 20
	1939 from which
	An oak, 10 ins. diam., bears S.4°E., 38 lks. dist., mkd. ¼ S 20 BT.
	An oak, 8 ins. diam., bears N.40°E., 42 lks. dist., mkd. ¼ S 17 BT.
	Government Peak bears S.17°W.
	Ascend 146 ft. over NE. slope.
47.30	Spur, slopes N.; desc. 47 ft. over W. slope.
55.80	Draw, drains N.; asc. 59 ft. over broken E. slope.
61.00	Spur, slopes N.; desc. 50 ft. over W. slope.
63.60	Wash, 20 lks. wide, course N.20°E.; asc. 171 ft. over NE. slope.
71.60	Spur, slopes N.30°E.; desc. 118 ft. over NW. slope.
79.70	The cor. of secs. 17,18,19 and 20.
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and juniper. Undergrowth, oakbrush, cacti, and bear grass

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chains	
	West, on true line bet. secs. 18 and 19.
	Over mountainous land, thru scattering timber and undergrowth.
	Desc. 64 ft. over NW. slope.
8.70	Wash, 20 lks. wide, course NE.; asc. 136 ft. over east slope.
11.80	Ridge, bears NW. and SE.; desc. 683 ft. over SW. slope.
32.80	Wash, 20 lks. wide, course SW.; asc. 25 ft. over SE. slope.
36.30	Tip of spur, slopes S.20°W.; desc. 36 ft. over W. slope.
38.20	Wash, 10 lks. wide, course S.20°W.; asc. 38 ft. over SE. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, and in a mound of stone to top, for ¼ sec. cor., with brass cap mkd.
	¼ S 18 / S 19
	1939 from which
	An oak, 8 ins. diam., bears N.5°W., 53 lks. dist., mkd. ¼ S 18 BT.
	An oak, 6 ins. diam., bears S.18°W., 60 lks. dist., mkd. ¼ S 19 BT.
	A metal water tank bears S.15°W.
	Asc. 36 ft. over SE. slope.
44.80	Spur, slopes SW.; desc. 46 ft. over SW. slope.
49.80	Head of gulch, course S.20°W.; asc. 33 ft. over SE. slope.
54.00	Spur, slopes SW.; desc. 394 ft. over broken W. slope.
54.20	Same metal water tank bears S.64½°E.
79.25	Intersect the W. bdy. of Tp., 4.02 chs. North of the cor. of secs. 13 and 24, T.14 S., R.27 E., which is an iron post, 3 ins. diam., firmly set, projecting 18 ins. above ground, in a mound of stone, with brass cap mkd. and witnessed as described in the official record.
	Alter marks on brass cap to read:
	T14S / S 13 / S 24 / R27E | T14S / R28E / S 19
	1914.
	At point of intersection
	Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in

Chains	
	the ground to bedrock, and in a mound of stone to top, for closing cor. of secs. 18 and 19, with brass cap mkd.
	T 14 S / R 27 E / S 13 | T.14 S / S 18 / S 19 / R 28 E — CC
	1939
	from which
	An oak, 6 ins. diam., bears N.43°E., 20 lks. dist., mkd. T 14 S R 28 E S 18 CC B T.
	An oak, 6 ins. diam., bears S.30°E., 53 lks. dist., mkd. T 14 S R 28 E S 19 CC B T.
	Land, mountainous. Soil, rocky, 4th rate. Timber, oak and juniper. Undergrowth, oakbrush and cacti.

	From the cor. of secs. 17, 18, 19 and 20,
	N.0°03'W., on true line bet. secs. 17 and 18.
	Over mountainous land, through scattering timber and thick undergrowth.
	Desc. 272 ft. over NW. slope.
10.70	Wash, 15 lks. wide, course NE.; asc. 64 ft. over SE. slope.
13.90	Spur, slopes E.; desc. 108 ft. over NE. slope.
18.30	Wash, 10 lks. wide, course E., from SW.; asc. 196 ft. over SE. slope, to spur at 38.20 chs.
25.50	Spur, slopes E.; desc. slightly over NE. slope.
27.50	Gulch, course E.; asc. slightly over SE. slope.
38.20	Spur, slopes NE.; desc. 29 ft. over NW. slope.
39.76	Midpoint Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, for ¼ sec. cor., with brass cap mkd.
	¼ S 18 | S 17
	1939
	from which
	An oak, 8 ins. diam., bears N.10°E., 45 lks. dist., mkd. ¼ S 17 B T.
	An oak, 12 ins. diam., bears N.16°W., 32 lks. dist., mkd. ¼ S 18 B T.
	Desc. 806 ft. over NW. slope to spur.
56.50	Wash, 10 lks. wide, course NW.
64.90	Wash, 10 lks. wide, course NW.; asc. asc. 25 ft. over SW. slope.
70.00	Spur, slopes NW.; desc. 345 ft. over NE. slope.

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Chains	
79.52	Intersect the S. boundary of sec. 8. Set an iron post, 3 ft. long, 2 ins. diam., 6 ins. in the ground to bedrock, with a stone mkd. with a cross (X) deposited at the base, and in a mound of stone to top, for closing corner of secs. 17 and 18, with brass cap mkd. T 14 S R 28 E S 8 S 18 | S 17 C C 1939 The cor. of secs. 7, 8, 17 and 18 bears W., 68 lks. dist., An iron post, 2 ins. diam., firmly set, projecting 16 ins. above ground, in mound of stone, with brass cap, marked and witnessed as described in the official record. This cor. now refers to secs. 7 and 8 only, therefore change the marks on the brass cap to read T 14 S R 28 E S 7 | S 8 S 18 1914 Land, mountainous. Soil, rocky, 4th rate. Timber, oak and juniper. Undergrowth, oakbrush and cacti.

	At a point on the N. boundary of sec. 18, 40.00 chs. W. of the closing cor. of secs. 17 and 18, Set an iron post, 3 ft. long, 1 in. diam., 22 ins. in the ground, and in a mound of stone to top, for ¼ sec. cor. of sec. 18 only, with brass cap mkd. ¼ S 18 1939 from which An oak, 8 ins. diam., bears S.39°E., 95 lks. dist., mkd. ¼ S 18 B T. An oak, 6 ins. diam., bears S.47½°E., 99 lks. dist., mkd. ¼ S 18 B T. From this cor., The ¼ sec. cor. of secs. 7 and 18 bears W., 68 lks. dist., An iron post, 1 in. diam., firmly set and projecting 10 ins. above ground, with brass cap marked and witnessed as described in the official record. This cor. now refers to sec. 7 only, therefore change the marks on the brass cap to read ¼ S 7 1914

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General Description.

The land covered by this survey is situated in the eastern part of the Dos Cabezas mountains, ranging in elevation from about 4500 ft. in sec. 16 to 6000 ft. above sea level in sec. 20, Government Peak being the highest point in the six sections surveyed. The land is mountainous and granite formation outcroppings cover the area. The chief drainage channel is Nine Mile Wash in sec. 16, and carries a small stream of water, course NE.

The soil is decomposed granite on the slopes, with some black sandy loam in the more level areas.

There is a spring of good water near the ¼ sec. cor. of secs. 16 and 17.

No settlers reside in the area surveyed.

The land is suitable for grazing. Because of the roughness of the land, there are no roads. Trails follow most of the watercourses and ridgetops.

Final test of Buff transit No. 18000.

March 27, 1939; at station described on page 1 hereof, examine the adjustments of the transit and find no errors; then to test the working of the solar apparatus proceed as follows:

At 9h 00m , a.m., app. t., set off 32°12'N. on lat. arc, 2°26'N. on decl. arc and determine a meridian with the solar, which agrees with the true meridian.

At 12h 00m , app. noon, with lat arc unchanged, observe the sun on the meridian; the resulting reading of the decl. arc is 2°29'N., which agrees with the computed declination of the sun.

At 3h 00m , p.m., app.t., with lat.arc unchanged, set off 2°32'N. on decl. arc and determine a meridian with the solar, which agrees with the true meridian.

As all of the observations taken during the usual hours of solar work agree within 1' of the true meridian, conclude that the adjustments of the instrument have been maintained during this survey.

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(Revised May 1934)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

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Jack Bowker	Chainman
Jack Williams	Flagman
Amos R. Roten	Cornerman
Clifford Cline	Axeman
John G. Coverdale	Axeman.

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BOOK 4297

CERTIFICATE OF SURVEYOR

I, Benjamin J. Kinsey, Associate Cadastral Engineer
General Land Office, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 16th day of December, 1938, received from the district cadastral engineer for Arizona, with assignment instructions dated March 9, 1939, I have surveyed a portion of the subdivisional lines, completing the subdivision of Township 14 South, Range 28 East

of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Ariz.
April 28, 1943

Benjamin J. Kinsey
Associate Cadastral Engineer
General Land Office.
(Formerly Cadastral Engineer)

CERTIFICATE OF APPROVAL

OFFICE OF SUPERVISOR OF SURVEYS,

Denver, Colorado, August 12, 1944.

The foregoing field notes of the survey of a portion of the subdivisional lines, completing the subdivision of Township 14 South, Range 28 East, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Benjamin J. Kinsey, Cadastral Engineer, General Land Office, under special instructions dated December 16, 1938, and assignment instructions dated March 9, 1939, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

O. M. Horton Jr.
Supervisor of Surveys.

CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in~~ _____, is a true copy of the original field notes on file in the public survey office.

_____
Supervisor of Surveys.

U.S. GOVERNMENT PRINTING OFFICE 6—8412